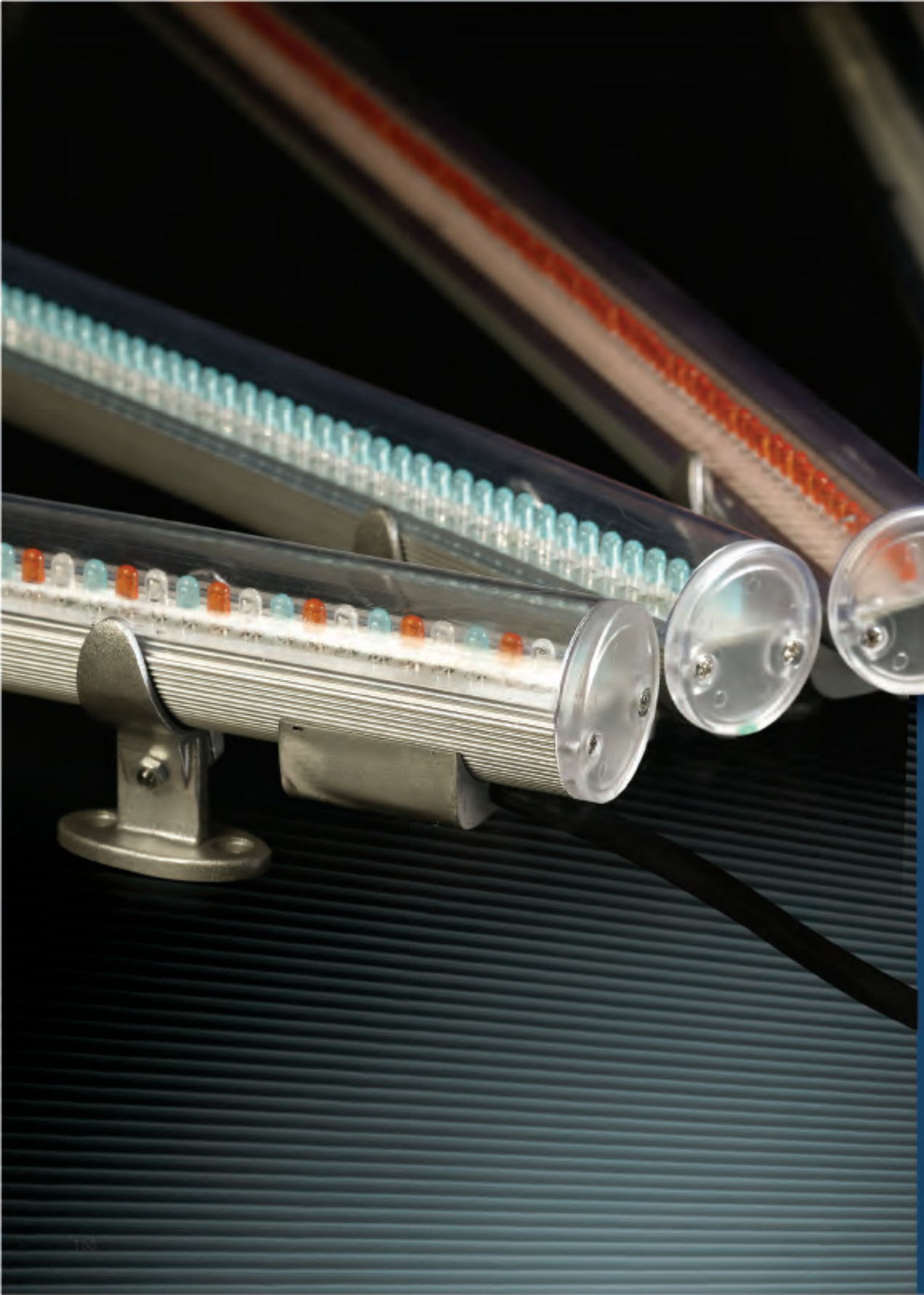
LED Tube Series



- LED Neon Flex™(professional)
- LED Neon Flex™(economical)
- LED Neon Flex™(color jacketed)
- Crystal LED Neon Flex™(color jacketed)
- RGB/Crystal RGB LED Neon Flex™
- Mini LED Neon Flex™(color jacketed)
- Ultra-thin LED Neon Flex™
- LED Vision Belt/Flex™
- LED Duralight™ Mini Flat/Flat-6V
- LED Duralight™ SE
- LED Duralight™ 2WRVE/2WRH/3/4/ 5WRHE/2/3/4/5WRTVE
- LED Duralight™ Festive
- LED Rigid Linear Square
- LED Rotary Shelf Light

INDOOR USE

Ø38 LED Mini Tube

LED Mini Tube AWB is a newly developed lighting fixture which incorporates Amber, (WLED) White, and Blue LED technology. By mixing amber, white and blue colors, you can adjust the Color Correlated Temperature (CCT) to achieve a full spectrum of cool to warm white.

Similar in structure to the AWB color mixing version of the Ø38 LED Mini Tube, however the Ø38 LED Mini Tube SC (A/W/B) is available in singe color. Ø38 LED Mini Tube SC version make perfect linear single color illumination in Amber, Cool White, Warm White, Ultra Warm White, or Blue colors.

The New, Warm White and Ultra Warm White versions of the LED Mini Tube SC provide energy saving warm and "true" incandescent white light to applications that once were limited to high energy consuming incandescent and halogen based illumination.

Ø38 LED DMX Mini Tube AP RGB is the latest full color energy savings LED linear Tube solution designed for professional color changing projects. Ø38 LED DMX Mini Tube AP RGB can be controlled via any standard DMX-512 controller with 3, 4, and 5 channel configurations as well as the SRC-Pixdot-PC control system.

Ø38 LED DMX Mini Tube AP RGB is constructed of a professional extruded aluminum profile with an optically clear polycarbonate cover and professional mounting system. The Ø38 LED DMX Mini Tube AP RGB comes in 3 standard lengths which are 300, 600, and 1000mm.

(Custom Colors available upon request)

(RGB)

(AWB)

Specifications

Item No.	***LN-MN-Ø38x300-DMX LN-MN-Ø38x600-DMX LN-MN-Ø38x1000-DMX***	***LN-MN-Ø38x300-12V-AWB LN-MN-Ø38x600-12V-AWB LN-MN-Ø38x1000–12V-AWB***
Color range	16.7million (24-bit true color)	Power LED AWB (Amber, WLED White LED, Blue) For Linear Color Correlated Temperature (CCT) Control from 2000 to 10,000K
Light source	Super Bright R, G, and B LEDs	Super Bright A,W,B LEDs
Beam angle	85°X40°	
Quantity of LED	45 LEDs / 90 LEDs / 135 LEDs	
Voltage Input	100-240V AC	
Voltage Output	12V DC	
Output current of switching power supply	8.5A	290mA / 380mA /690mA
Power	4W / 8W / 12W	3.5W / 4.6W / 8.3W
Luminous flux	23Lm / 40Lm / 56Lm	74.1Lm / 100.2Lm / 188.5Lm
Light efficiency	1.4Lm/W / 2Lm/W / 2.4Lm/W	
Control mode	DMX-512	DMX-512 or SRC-PIXEL-PC
DMX Channels	RGB 3 / PRGB 4 / PW1RGB 5	AWB 3 / PAWB 4 / PW1AWB 5
Connected tube qty. of each adapter	20pcs / 10pcs /7pcs	
Operating Temperature	-20°C-45°C	
Operating Humidity	0-95%	
Weight	0.2Kg / 0.28Kg / 0.35Kg	

Function Description (RGB)

Mode	#of DMX Channels	Dip Settings	Channel	Name	Value	Function
RGB	3	11=Off	1	Red	0-255	0-100% Intensity
		12=Off	2	Green	0-255	0-100% Intensity
			3	Blue	0-255	0-100% Intensity
PRGB	4		1	P	0-255	Master Dimmer 0-100% Intensity (R,G,B)
		11=On	2	Red	0-255	0-100% Intensity
		12=Off	3	Green	0-255	0-100% Intensity
			4	Blue	0-255	0-100% Intensity
PW1RGB	5		1	P	0-255	Master Dimmer 0-100% Intensity (R,G,B)
		12=On	2	W1	0-255	0-100% Intensity
		11=Off	3	Red	0-255	0-100% Intensity
			4	Green	0-255	0-100% Intensity
			5	Blue	0-255	0-100% Intensity

Function Description (AWB)

Mode	#of DMX Channels	Mode Dip Settings	Channel	Name	Value	Function
AWB		11=Off	1	Amber	0-255	0-100% Intensity
	3	12=Off	2	White	0-255	0-100% Intensity
			3	Blue	0-255	0-100% Intensity
PAWB			1	P	0-255	Master Dimmer 0-100% Intensity (A,W,B)
	4	11=On	2	Amber	0-255	0-100% Intensity
		12=Off	3	White	0-255	0-100% Intensity
			4	Blue	0-255	0-100% Intensity
PW1AWB			1	P	0-255	Master Dimmer 0-100% Intensity (A,W,B)
	5	12=On	2	W1	0-255	0-100% Intensity
		11=Off	3	Amber	0-255	0-100% Intensity
			4	White	0-255	0-100% Intensity
			5	Blue	0-255	0-100% Intensity

Note: Refer to the products user manual for the most up to date information on installation and connection.

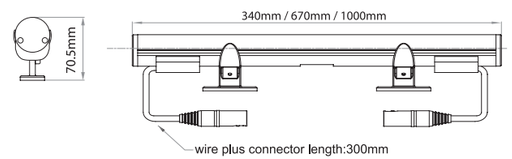
(A)

(W)

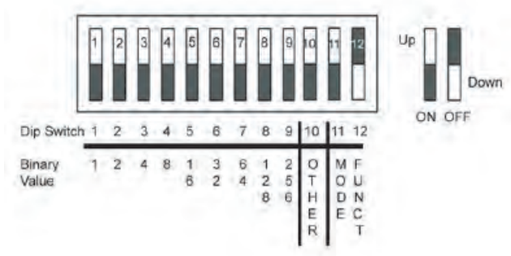
(B)

Item No.	***LN-MN-Ø38x300-12V-A LN-MN-Ø38x600-12V-A LN-MN-Ø38x1000-12V-A***	***LN-MN-Ø38x300-12V-W LN-MN-Ø38x600-12V-W LN-MN-Ø38x1000-12V-W***	***LN-MN-Ø38x300-12V-B LN-MN-Ø38x600-12V-B LN-MN-Ø38x1000–12V-B***
Color range	Amber	White	Blue
Light source	Amber LEDs	White LEDs	Blue LEDs
Quantity of LED	45 LEDs / 90 LEDs / 135 LEDs		
Voltage Output	12V DC		
Output current of switching power supply	170mA / 320mA / 450mA	175mA / 330mA / 460mA	180mA / 340mA / 480mA
Power	2W / 3.8W / 5.4W	2.1W / 4W / 5.5W	2.2W / 4.1W / 5.8W
Luminous flux	51.1Lm / 90Lm / 125.1Lm		
Operating Temperature	-20°C-45°C		
Operating Humidity	0-95%		
Weight	0.2Kg / 0.28Kg / 0.35Kg		

Dimensional Diagrams



DMX Functions



User Defined Settings (Manual Mode)

Dip Switch	1	2	3	4	5	6	7	8	9	10	11	12
Binary	1	2	4	8	16	32	64	128	256	NA	DMX Mode	DMX Mode
Condition	If On	If On	If On	If On	If On	If On	If On	If On	If On	If On	Off	Off
Macro	Amber	White	Warm White	Blue	White	Cool White	True White	Color Cycle	White Transition	NA	\	\

Illuminance Distribution

5	7	9	8	6	4	1m
11	17	20	19	14	8	
18	33	46	45	27	15	0m
13	24	39	39	25	14	
6	11	14	14	10	6	1m
3	4	4	4	3	3	
1m		0m			1m	

Units:	Lux
Measured on:	White
Distance from surface:	0.3m (from center of grid)
Multipliers:	0.13R, 0.60G, 0.27B

Illuminance Distribution

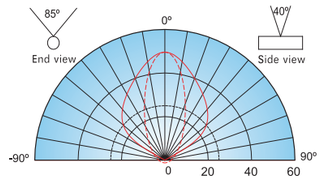
6	8	12	12	10	6	1m
14	26	40	46	34	20	
40	93	141	146	100	52	0m
46	95	137	133	93	45	
16	31	43	38	28	15	1m
5	7	9	10	7	5	
1m		0m			1m	

Units:	Lux
Distance from surface:	0.3m (from center of grid)

Due to the limitation of the type set, this catalog's specifications for each fixture may not be shown. For more information on other models please contact your Neo-Neon™ Sales Associate.

LN-MN-Ø38x600-DMX (RGB)

Candle Power Distribution



End view(solid line) and side view(dashed line) (candelas)

Measured on:	White
Beam center:	34cd
Thin dashed lined:	Indicates 50% of peak value
Multipliers:	0.13R, 0.60G, 0.27B

luminance

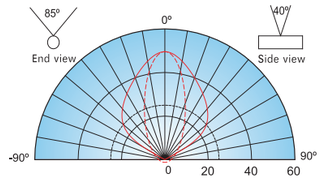
Color	White	Red	Green	Blue
1m	50	7	41	3
2m	13	2	11	1
3m	6	1	6	
4m	3		3	
5m	2		2	

Light Output

Color	White	Red	Green	Blue
Total Output (lumens)	95.2	22.4	63.0	15.3
Power (Watts)	6.2	1.9	3	2.8
Efficacy (lm/W)	15.3	11.7	21	5.5

LN-MN-Ø38x600-12V-W

Candle Power Distribution



End view(solid line) and side view(dashed line) (candelas)

Beam center:	34cd
Thin dashed lined:	Indicates 50% of peak value

luminance

Color	1m	2m	3m	4m	5m
W	169	43	19	11	7

Measured in Lux on axis

Light output

Color	Total output(Lumens)	Power(Watts)	Efficacy(Lm/w)
W	261.7	5.6	46.4

Connection Diagram

We have provided a connection on this page diagram to help you make the appropriate connections.

- Connect the signal wire of DMX console or SRC-PIXEL-PC with signal distribution box SRC-PS-DST-12V-1110
- Connect the input port of each branch of the signal distributing box with 4-pin male connector
- Connect the LN-MN-ø38X300 -12V-AWB to the signal distribution as shown in the diagram ensuring that the 4-pin male connector is inserted into the 4-pin female connector

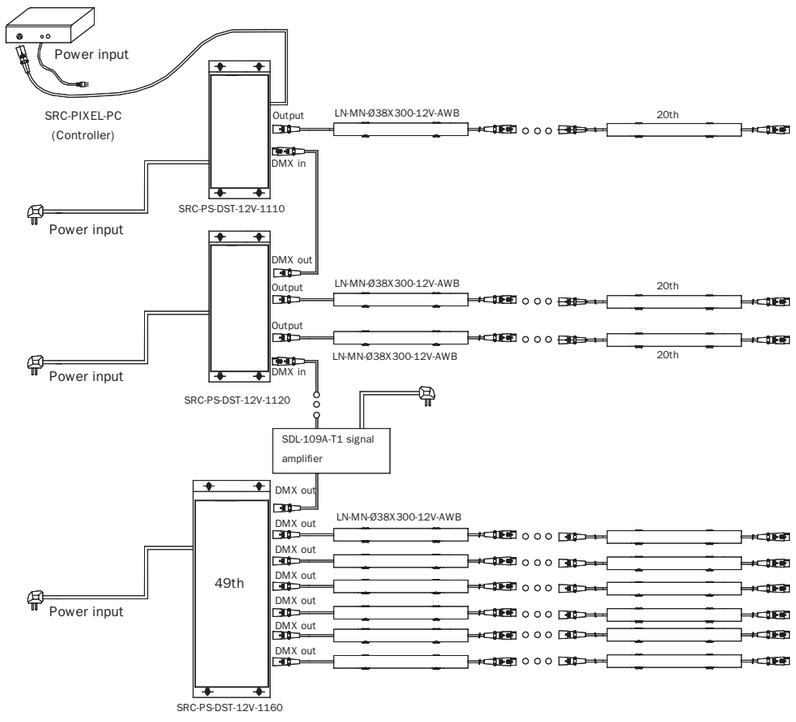
Note:
Maximum number of LN-MN-ø38X300 -12V-AWB that can be connected to each branch of the signal distribution box is 20. Maximum number of LN-MN-ø38X600 -12V-AWB that can be connected to each branch is 10.
When the total number of tubes reaches 48 a signal amplifier SDL-109A-T1 must be added.
When using the SRC-Pixel-PC controller the tube dip mode must be set so that the fixture is operating in 3 channel mode.

Refer to the user manual supplied with your product for the latest information and read all warnings and cautions prior to proceeding with the steps above.

For DMX Control you will also need to purchase the SRC-PS-DST-12V-1160 Signal Distribution Box. For large applications you will need to boost the signal using the SDL-109A-T1 Signal Amplifier. (See Page# P414-419 of this catalog for more information)

SRC-PIXEL-PC Control Accessories

For SRC-PIXEL-PC Control you will also need to purchase the SRC-PS-DST-12V-1/20 Signal Distribution Box. For large applications you will need to boost the signal using the SDL-109A-T1 Signal Amplifier. (See Page# P414-419 of this catalog for more information)



INDOOR USE OUTDOOR USE CE

LED Mini Tube

(Indoor / Outdoor Non-Direct DMX)

LED Mini Tube is an energy saving, lower cost, Non-Direct DMX controlled, outdoor, low voltage, linear RGB color changing accent and cove fixture. Connected to the SRC-181 controller power supply controller the LED Mini Tube can be set to playback selectable pre-programmed color changing transitions automatically. Connect the SRC-181 controller to a standard DMX console to indirectly control the LED Mini Tube via the SRC-181.

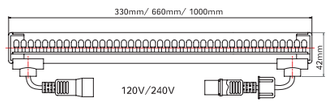
LED Mini Tube is a non-intelligent fixture which means all functionality is provided by the controller and external interfaces. For more information on the SRC-181 refer to Page# P414-419 of this catalog.

Specifications

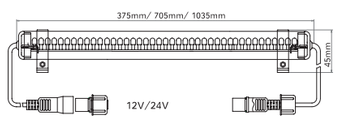
Item NO.	***LN-MN-600-240V-M/MB*** ***LN-MN-1000-240V-M/MB***	***LN-MN-300-120V-M/MB*** ***LN-MN-600-120V-M/MB*** ***LN-MN-1000-120V-M/MB***	***LN-MN-300-24V-M(W)*** ***LN-MN-600-24V-M(W)*** ***LN-MN-1000-24V-M(W)***	***LN-MN-300-24V-M*** ***LN-MN-1000-24V-M***
Light Source	Super Bright LEDs			
Qty. of LEDs	R30, G30, B30 (600) R45, G45, B45 (1000)	R15, G15, B15 (300) R30, G30, B30 (600) R45, G45, B45 (1000)		R15, G15, B15 (300) R45, G45, B45 (1000)
Luminous Flux	42.5Lm(600) / 64Lm(1000)	21.3Lm / 42.5Lm / 64Lm		21.3Lm / 64Lm
Beam Angle	85˚ x 40˚			
Wavelength(s)(nm)	R: 620-630, G: 510-520, B: 470-480			
VF Value	R: 1.9-2.3, G: 3.0-3.8, B: 3.0-3.8			
Operating Power	14.4W	7.2W / 7.2W / 12W	3.84W / 7.6W / 11.5W	3.84W / 11.52W
Operating Current	0.06A	0.06A / 0.06A / 0.1A	0.16A / 0.32A / 0.48A	0.16A / 0.48A
Operating Voltage	240V AC	120V AC	24V DC	
Dimensions (mm)	L660(1000)xW30xH46	L360(690/1030)xW30xH46	L375(705/1035)xW30xH46	L343(1010)xW30xH38
Weight	0.3Kg(600) / 0.38Kg(1000)	0.2Kg / 0.3Kg / 0.38Kg	0.2Kg / 0.28Kg / 0.35Kg	0.2Kg / 0.35Kg
Operating Temperature	-20˚C ~60˚C			-20˚C ~45˚C
Humidity Range	0-95%			
Control	Non-Direct DMX/SRC-181			
Controller	SRC-181-120V			
Maximum Load Per SRC-181	150pcs(600) / 100pcs(1000)	200pcs / 100pcs / 60pcs	60pcs / 30pcs / 20pcs	60pcs / 20pcs

LED Mini Tube I-ND-DMX comes in two styles as it pertains to the exit and entry location of the connection wires. To specify the type make sure your part number reflects a –M or a –MB at the end of the part number according to the diagrams below.

1 Method one (LN-MN-XXX -M Type)
Connectimg cables come from the ends of the tube.



2 Method two (LN-MN-XXX–MB Type)
Connectimg cables come from the bottom of the tube.



(W) at the end of the part number indicates Waterproof Version
If the part number does not contain a (W) then that version is intended for indoor use only.

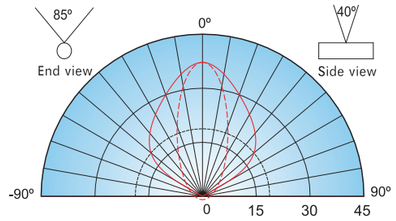
Illuminance Distribution

1	2	2	2	2	1	1m
3	5	7	6	4	2	
8	17	26	25	15	6	0m
11	25	50	48	21	9	
5	11	18	16	11	5	1m
2	3	4	4	3	2	
1m		0m			1m	

Units: Lux
Measured on: White
Distance from surface: 0.3m (from center of grid)
Multipliers: 0.07R, 0.57G, 0.36B

Due to the limitation of the type set, this catalog's specifications for each fixture may not be shown. For more information on other models please contact your Neo-Neon™ Sales Associate.

Candle Power Distribution



Horizontal and Vertical (solid line) (candelas)

Measured on: White
Beam center: 38cd
Thin dashed lined: Indicates 50% of peak value
Multipliers: 0.07R, 0.57G, 0.36B

Light Output

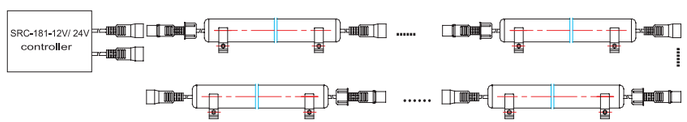
Color	White	Red	Green	Blue
Total Output (lumens)	75.1	14.0	48.8	16.7
Power (Watts)	3.5	0.8	1.3	1.3
Efficacy (lm/W)	21.5	17.4	36.2	12.4

luminance

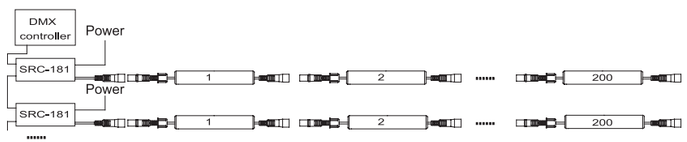
Color	White	Red	Green	Blue
1m	50	5	43	5
2m	13	1	11	1
3m	6		5	
4m	3		3	
5m	2		2	

System Connection Diagram

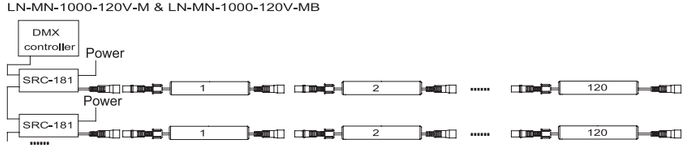
LN-MN-300/600/1000-12V-M(W)
LN-MN-300/600/1000-24V-M(W)



LN-MN-300-120V-M/MB & LN-MN-600-120V-M/MB
LN-MN-600-240V-M/MB & LN-MN-1000-240V-M/MB



LN-MN-1000-120V-M & LN-MN-1000-120V-MB



INDOOR USE

pending

LED Mini Tube CCT 1

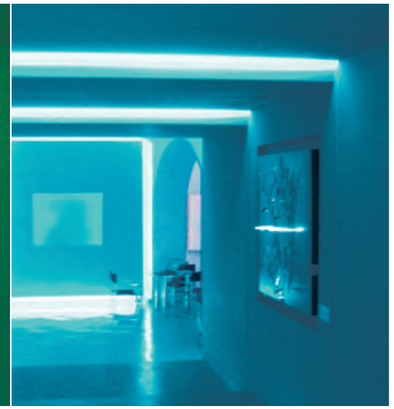
(Non-Direct DMX)
(Changeable Color Temperature)

LED Mini Tube CCT 1 is an energy saving, color temperature changing, white light, indoor, linear, LED based tube product. The LED Mini Tube CCT 1 is low voltage and can be operated in standalone mode via the SRC-181-CTC controller power supply. The SRC-181-CTC comes in 120V or 220V AC and 12V or 24V DC. Additionally you can connect the SRC-818-CTC to DMX-512 to provide non-direct DMX control.

The LED Mini Tube CCT 1 enables the adjusting of the White color temperature rated in Kelvin by bringing in and our varying degrees of Yellow. Many customers apply the LED Mini Tube CCT 1 as a under cabinet solution for illuminating fine artwork, antiques, clothing, and articles where warming the whiter light preserves the intended natural color of the illuminated objects. Other applications include cove, architectural, tradeshow exhibits, and areas where color correction of white light illumination is desired.
Dimensional Diagram

LED Mini Tube CCT 1 is a non-intelligent fixture which means all functionality is provided by the controller and external interfaces. For more information on the SRC-181-CTC refer to Page# 414-419 of this catalog.



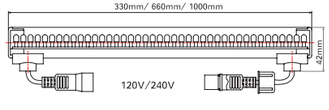


Specifications

Item NO.	*LN-MN-600-240V-CTC* *LN-MN-1000-240V-CTC*	*LN-MN-300-120V-CTC* *LN-MN-600-120V-CTC* *LN-MN-1000-120V-CTC*	*LN-MN-300-24V-CTC* *LN-MN-600-24V-CTC* *LN-MN-1000-24V-CTC*	*LN-MN-300-12V-CTC* *LN-MN-600-12V-CTC* *LN-MN-1000-12V-CTC*
Light Source	Super Bright LEDs			
Qty. of LEDs	Y30, W60 (600) Y45, W90 (1000)	Y15, W30 (300) Y30, W60 (600) Y45, W90 (1000)		
Luminous Flux	42.5Lm(600) / 64Lm(1000)	21.3Lm / 42.5Lm / 64Lm		
Beam Angle	85˚ x 40˚			
VF Value	Y: 1.9-2.3, W: 3.0-3.8			
Operating Power	14.4W	7.2W / 7.2W / 12W	3.84W / 7.6W / 11.5W	3.5W / 7W / 10.5W
Operating Current	0.06A	0.06A / 0.06A / 0.1A	0.16A / 0.32A / 0.48A	0.29A / 0.58A / 087A
Operating Voltage	240V AC	120V AC	24V DC	12V DC
Dimensions (mm)	L660(1000)xW30xH46	L330(660/1000)xW30xH46	L330(660/1000)xW30xH46	
Weight	0.3Kg(600) / 0.38Kg(1000)	0.21Kg / 0.3Kg / 0.38Kg	0.2Kg / 0.28Kg / 0.35Kg	
Operating Temperature	-20˚C ~60˚C			
Humidity Range	0-95%			
IP Rating	IP20			
Control	Non-Direct DMX/SRC-181-CTC			
Controller	SRC-181-CTC-240V	SRC-181-CTC-120V	NA	
Maximum Load Per SRC-181-CTC	150pcs(600) / 100pcs(1000)	200pcs / 100pcs / 60pcs	60pcs / 30pcs / 20pcs	60pcs / 20pcs

LED Mini Tube ND-DMX CCT-1 housing style is designed so that the input and output connections are on the bottom of the tube profile. This is indicated by the –CTC at the end of the part number.

Dimensional Diagrams



Illuminance Distribution

8	13	16	17	13	9	1m
25	45	52	54	40	21	
50	93	126	121	77	38	0m
29	57	80	81	51	25	
8	14	21	21	15	8	1m
3	5	7	7	5	3	
1m		0m			1m	

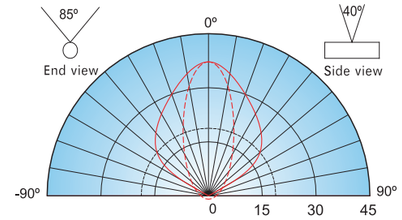
Units:	Lux
Measured on:	White
Distance from surface:	0.3m (from center of grid)
Multipliers:	0.07R, 0.57G, 0.36B

SRC-181-CTC

LED Mini Tube ND-DMX CCT-1 is a non-intelligent fixture which means all functionality is provided by the controller and external interfaces. For more information on the SRC-181-CTC refer to Page# P414-419 of this catalog.

Due to the limitation of the type set, this catalog's specifications for each fixture may not be shown. For more information on other models please contact your Neo-Neon™ Sales Associate.

Candle Power Distribution



Horizontal and Vertical (solid line) (candelas)

Measured on:	White
Beam center:	38cd
Thin dashed lined:	Indicates 50% of peak value

Light Output

Color	White	White Yellow	Yellow
Total Output (lumens)	206.7	200.4	22.1
Power (Watts)	5.8	7.6	1.7
Efficacy (lm/W)	35.6	26.4	13

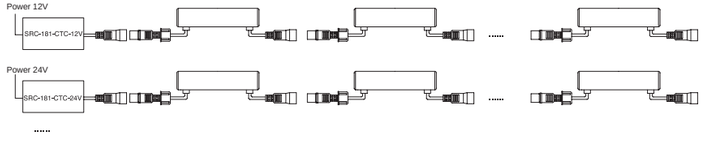
luminance

Color	White
1m	137
2m	34
3m	15
4m	9
5m	6

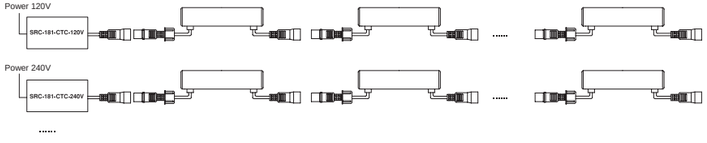
LED Mini Tube ND-DMX CCT-2 is a non-intelligent fixture which means all functionality is provided by the controller and external interfaces. For more information on the SRC-181-CTC refer to Page# P502-507 of this catalog.

System Connection Diagram

LN-MN-300-12V-CTC,LN-MN-600-12V-CTC,LN-MN-1000-12V-CTC
LN-MN-300-24V-CTC,LN-MN-600-24V-CTC,LN-MN-1000-24V-CTC

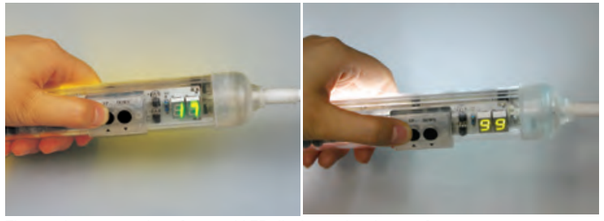


LN-MN-300-120V-CTC,LN-MN-600-120V-CTC,LN-MN-1000-120V-CTC
LN-MN-600-240V-CTC,LN-MN-1000-240V-CTC



* Private Villa, Kowloon, Hong Kong, P.R. China

* Clayton Bay Hotel, Hiroshima, Japan



The two button user interface and LED display makes it easy for customers to individually “dial in” the desired color temperature for each tube.

This interface is located on the rear of the tube.

INDOOR USE

pending

LED Mini Tube CCT 2

(Non-Direct DMX)
(Changeable Color Temperature)

LED Mini Tube CCT 2 is an energy saving, color temperature changing, white light, outdoor, linear, LED based tube product with built in control system and LED menu interface.

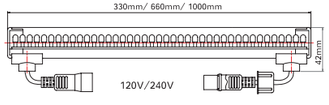
The main difference between CCT 1 and CCT 2 versions is the location of the connections and controllability. The CCT 2 connections are located on the ends of the tube whereas the CCT 1 version exits the bottom ends of the tube profile. the CCT 2 incorporates an intelligent two button user interface and LED display that enables the user to dial in the desired color temperature individually without the need for a DMX controller. This has significant benefits for applications where customers may be unfamiliar with DMX and where the color temperature needs to be individually controlled to preserve the illuminated surfaces natural color.

The LED Mini Tube CCT 2 enables the adjusting of the White color temperature rated in Kelvin by bringing in and our varying degrees of Yellow. Many customers apply the LED Mini Tube CCT 2 as a under cabinet solution for illuminating fine artwork, antiques, clothing, and articles where warming the whiter light preserves the intended natural color of the illuminated objects. Other applications include cove, architectural, tradeshow exhibits, and areas where color correction of white light illumination is desired.

Specifications

Item NO.	*LN-MN-600-240V-CT* *LN-MN-1000-240V-CT*	*LN-MN-300-120V-CT* *LN-MN-600-120V-CT* *LN-MN-1000-120V-CT*	*LN-MN-300-24V-CT* *LN-MN-600-24V-CT* *LN-MN-1000-24V-CT*	*LN-MN-300-12V-CT* *LN-MN-600-12V-CT* *LN-MN-1000-12V-CT*
Light Source	Super Bright LEDs			
Qty. of LEDs	Y30, W60 (600) Y45, W90 (1000)	Y15, W30 (300) Y30, W60 (600) Y45, W90 (1000)		
Luminous Flux	42.5Lm(600) / 64Lm(1000)	21.3Lm / 42.5Lm / 64Lm		
Beam Angle	85˚ x 40˚			
VF Value	Y: 1.9-2.3, W: 3.0-3.8			
Operating Power	14.4W	7.2W / 7.2W / 12W	3.84W / 7.6W / 11.5W	3.5W / 7W / 10.5W
Operating Current	0.06A	0.06A / 0.06A / 0.1A	0.16A / 0.32A / 0.48A	0.29A / 0.58A / 087A
Operating Voltage	240V AC	120V AC	24V DC	12V DC
Dimensions (mm)	L660(1000)xW30xH46	L330(660/1000)xW30xH46	L330(660/1000)xW30xH46	
Weight	0.3Kg(600) / 0.38Kg(1000)	0.21Kg / 0.3Kg / 0.38Kg	0.2Kg / 0.28Kg / 0.35Kg	
Operating Temperature	-20˚C ~60˚C			
Humidity Range	0-95%			
IP Rating	IP20			

Dimensional Diagrams



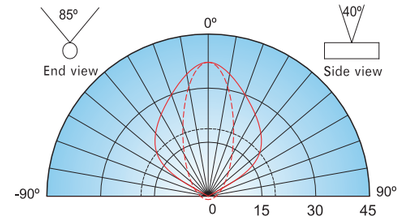
Illuminance Distribution

8	13	16	17	13	9	1m
25	45	52	54	40	21	
50	93	126	121	77	38	0m
29	57	80	81	51	25	
8	14	21	21	15	8	1m
3	5	7	7	5	3	
1m		0m			1m	

Units: Lux
Measured on: White
Distance from surface: 0.3m (from center of grid)
Multipliers: 0.07R, 0.57G, 0.36B

Due to the limitation of the type set, this catalog's specifications for each fixture may not be shown. For more information on other models please contact your Neo-Neon™ Sales Associate.

Candle Power Distribution



Horizontal and Vertical (solid line) (candelas)

Measured on: White
Beam center: 38cd
Thin dashed lined: Indicates 50% of peak value

Light Output

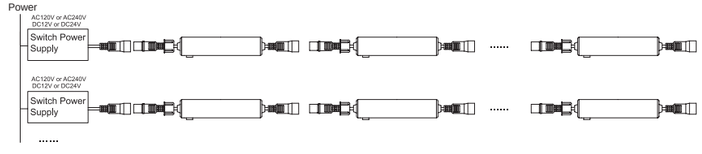
Color	White	White Yellow	Yellow
Total Output (lumens)	206.7	200.4	22.1
Power (Watts)	5.54	7.6	1.7
Efficacy (lm/W)	35.6	26.4	13

luminance

Color	White
1m	137
2m	34
3m	15
4m	9
5m	6

LED Mini Tube ND-DMX CCT-2 is a non-intelligent fixture which means all functionality is provided by the controller and external interfaces. For more information on the SRC-181-CTC refer to Page# P414-419 of this catalog.

System Connection Diagram



LED Mini Tube IC CCT 2 is an intelligent internally controllable Non-DMX fixture.

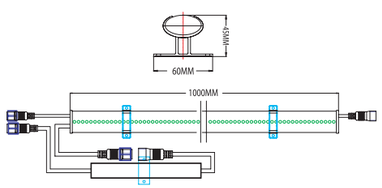
INDOOR USE OUTDOOR USE CE UL pending

LED Clear Oval RGB Tube

(Outdoor)
(Non-Direct DMX)

LED Clear Oval RGB tube is another of Neo-Neon's most popular LED Tube products. LED Clear Oval RGB tube is an energy saving RGB LED color changing tube that is engineered with either a clear polycarbonate tube or aluminum profile base with clear PC cover. Through the process of light refraction one beam with an illumination angle of 100° is projected to the inner surface of the clear cap. The oval tube structure assures a wider viewing angle. LED Clear Oval RGB tube is a non-direct DMX controllable product and requires a external controller which can be operated in stand-alone or with DMX-512 to playback pre-programmed color changing and effects.

Dimensional Diagrams



Specifications

Item No.	***LN-MC-A40B24-120V-II*** ***LN-MC-A40B24-240V-II***
Qty. of LEDs	144PCS (R48, G48, B48)
Luminance	106Lm
Operating Temperature	–20°C ~ +45°C
Operating Humidity	0~95%
IP Rating	IP65

Control Mode

Controller	SDL-109C1 6.0
Signal Input Connector	4-pin male connector
Signal Output Connector	4-pin female connector

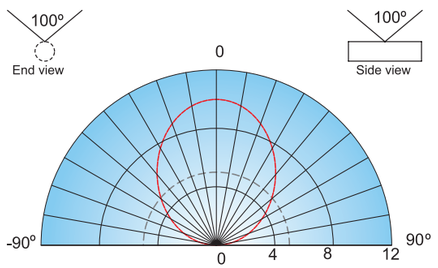
Electrical Specifications

Input (SDL-109C1 5.1A)	100-240V AC
Operating Voltage	12V DC
Current	1.4A
Power Consumption	Max. 16.8W

Structural Specifications

Material of Light Tube	Clear polycarbonate
Net Weight	0.8kg
Dimension	L1000 x W40 x H45mm

Candle Poweer Distribution



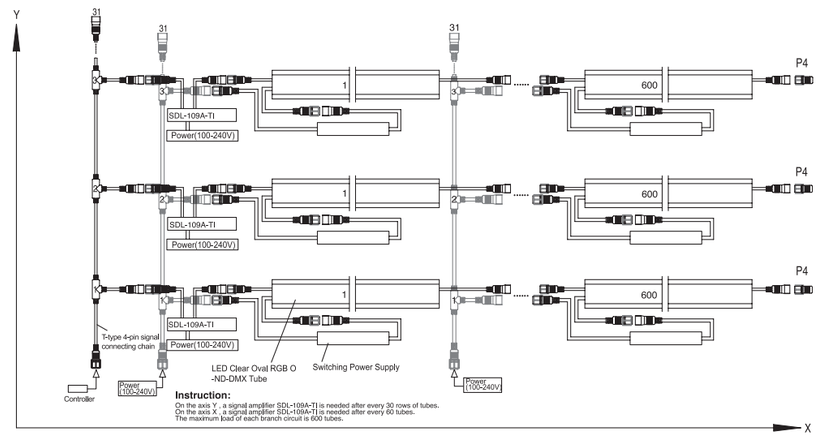
End View and Side view (dashed line) (Candelas)

Measured on:	White
Beam center:	10cd
Thin dashed lined:	Indicates 50% of peak value
Multipliers:	0.07R, 0.57G, 0.36B

Light Output

Color	White	Red	Green	Blue
Total Output (lumens)	106	17.4	70.1	24.2
power (watts)	12	2.4	4.8	4.8
Efficacy (lm/w)	8.8	7.3	14.6	5.0

System Connection Diagram



P3 end cap for big 2-pin power connector P4 end cap for small 4-pin, singnal connector

LED Clear Oval RGB O-ND-DMX is a non-intelligent fixture which means all functionality is provided by an external controller SDL-109C1 6.0A. For more information on the SDL-109C1 6.0A refer to Page# 502-507 of this catalog.

LED Clear Oval RGB O-ND-DMX comes in two styles as it pertains to the housing materials. The normal part number specifies the standard polycarbonate version. Add (-AL) to the end of the part number to specify the Aluminum Base Clear PC Cap version.

* Rahat Towers, Almaty, Kazakstan
(Photo supplied by company of
Billboard Video LED Engineering

* Dewan Bandaraya, Kuala Lumpur, Malaysia

INDOOR USE OUTDOOR USE CE UL pending

LED Vision Tube

LED Vision Tube (1M) is an advanced tube design and the latest version of the LED Tube from Neo-Neon.

The LED Vision Tube is a video grade tube and can be set to 8, 16, 32 pixel resolutions per tube.

The LED Vision Tube uses the very latest in high quality tri-color (RGB) LED's to provide high luminosity even and consistent colors.

The LED Vision Tube can be directly controlled by DMX-512 or our PC Video Control System.

Future Compatibility with Vision Studio MX control hardware and software.

Functions:

Color Change:	Function Description
	Color change, color flow and color chase
	Color fade changes
	Motion picture effect
	Video play

Theory Description

The product uses LED as light source, which projects light beams with an angle of 100o to the inner surface of the Polycarbonate tube structure. The light passes through the outer surface of the tube to form mixed color light after several reflections and refractions. The LED Vision Tube is connected to standard VIDEO signals and controlled by an independent VIDEO control system.

Specifications

Item NO.	***LN-MC-1000-VIDEO***
Qty of LEDs	144pcs (R48, G48, B48)
Luminance	64Lm
Operating Temperature	–20°C ~ +45°C
Operating Humidity	0~95%
IP Rating	IP65

Control Mode

Computer Controlling	PC +Video controller+Scanner
Signal Input Connector	5-pin male connector
Signal Output Connector	5-pin female connector

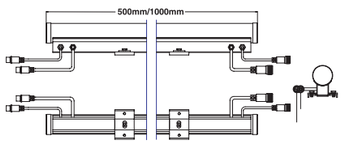
Electrical Specifications

Input Voltage	100-240V AC/50-60Hz
Operating voltage	12V DC
Current	0.7A
Power Consumption	8.4W

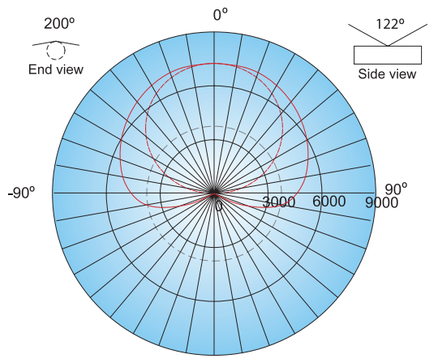
Structural Specifications

Material of Light Tube	Milky White PC (anti-UV)
Material of Lamp Holder	Aluminum Alloy
Net Weight	1.8Kg
Dimension	L1000 x W50 x H94mm

Dimensional Diagrams



Candle Poweer Distribution



End view(solid line) and Side view(dashed line) (candelas)

Measured on:	White
Beam center:	7400mcd
Thin dashed lined:	Indicates 50% of peak value
Multipliers:	0.07R, 0.57G, 0.36B

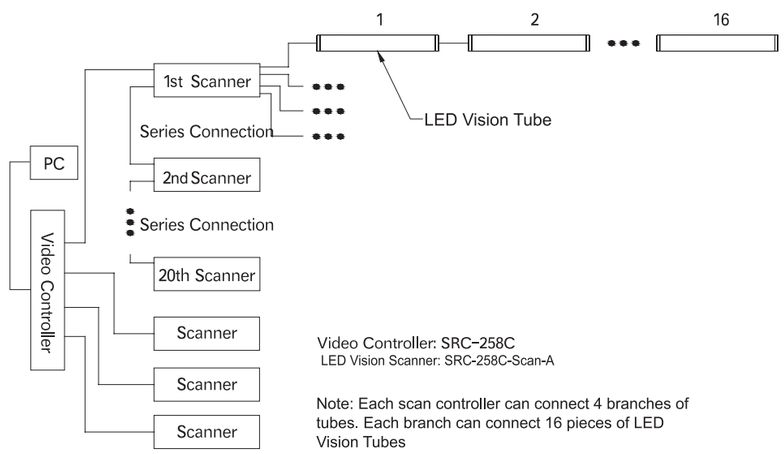
Light Output

Color	White	Red	Green	Blue
Total Output (lumens)	63.9	10.5	42.3	14.6
power (watts)	12	2.4	4.8	4.8
Efficacy (lm/w)	5.3	4.4	8.8	3.0

DMX Functionallty Chart

Mode	# of DMX Channels	1	2	4	8	1 6	Channel	Name	Value	Function
1 Pixel	3						1	Red	0~255	0~100% Intensity
							2	Green	0~255	0~100% Intensity
							3	Blue	0~255	0~100% Intensity
							4	Red	0~255	0~100% Intensity
							5	Green	0~255	0~100% Intensity
2 Pixels	6						6	Blue	0~255	0~100% Intensity
							7	Red	0~255	0~100% Intensity
							8	Green	0~255	0~100% Intensity
							9	Blue	0~255	0~100% Intensity
							10	Red	0~255	0~100% Intensity
							11	Green	0~255	0~100% Intensity
4 Pixels	12						12	Blue	0~255	0~100% Intensity
							13	Red	0~255	0~100% Intensity
							14	Green	0~255	0~100% Intensity
							15	Blue	0~255	0~100% Intensity
							16	Red	0~255	0~100% Intensity
							17	Green	0~255	0~100% Intensity
							18	Blue	0~255	0~100% Intensity
							19	Red	0~255	0~100% Intensity
							20	Green	0~255	0~100% Intensity
							21	Blue	0~255	0~100% Intensity
							22	Red	0~255	0~100% Intensity
							23	Green	0~255	0~100% Intensity
8 Pixel	24						24	Blue	0~255	0~100% Intensity
16 Pixel	48						25-48	Red	0~255	0~100% Intensity

System Connection Diagram



Video Controller: SRC-258C
LED Vision Scanner: SRC-258C-Scan-A

Note: Each scan controller can connect 4 branches of tubes. Each branch can connect 16 pieces of LED Vision Tubes

LED DMX Tube

LED DMX Tube is an advanced tube design and the latest version of the LED Tube from Neo-Neon.

The LED DMX Tube is a graphics and color changing grade tube that can be set to 1, 2, 4, 8, and 16 pixels per tube. LED DMX Tubes come in half meter (500mm) and 1 meter versions.

The LED DMX Tube uses the very latest in high quality (RGB) LED's to provide high luminosity even and consistent colors.

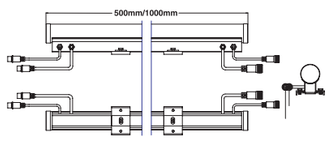
The LED DMX Tube can be directly controlled by DMX-512, PC Graphics Control, or a stand-alone graphics playback system.

Functions

Color Change:	Function Description
	Color change, color flow and color chase
	Color fade changes
	Motion picture effect
	Video play

INDOOR USE OUTDOOR USE CE UL pending

Dimensional Diagrams



Specifications

Item No.	*LN-MC-500-DMX*	*LN-MC-1000-DMX*
Qty of LEDs	72pcs (R24, G24, B24)	144pcs (R48, G48, B48)
Luminance	30Lm	64Lm
Operating Temperature	–20°C ~ +60°C	
Operating Humidity	0~95%	
IP Rating	IP65	

Controlling Mode

Individual Control	Stand-Alone SRC-236DL
Computer Control	PC+SRC-236DL
DMX Controlling	DMX-512
DMX Channels	3, 6, 12, 24, 48
Signal Input Connector	5-pin male connector
Signal Output Connector	5-pin female connector

Electrical Specifications

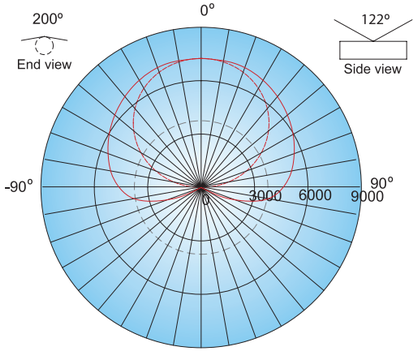
Input Voltage	100-240V AC/50-60Hz	
Current	0.7A	1.4A
Power Consumption	8.4W	16.8W

Structure

Material of Light Tube	Milky White PC (anti-UV)	
Material of Lamp Holder	Aluminum Alloy	
Net Weight	1.0kg	1.8Kg

Due to the limitation of the type set, this catalog's specifications for each fixture may not be shown. For more information on other models please contact your Neo-Neon™ Sales Associate.

Candle Poweer Distribution

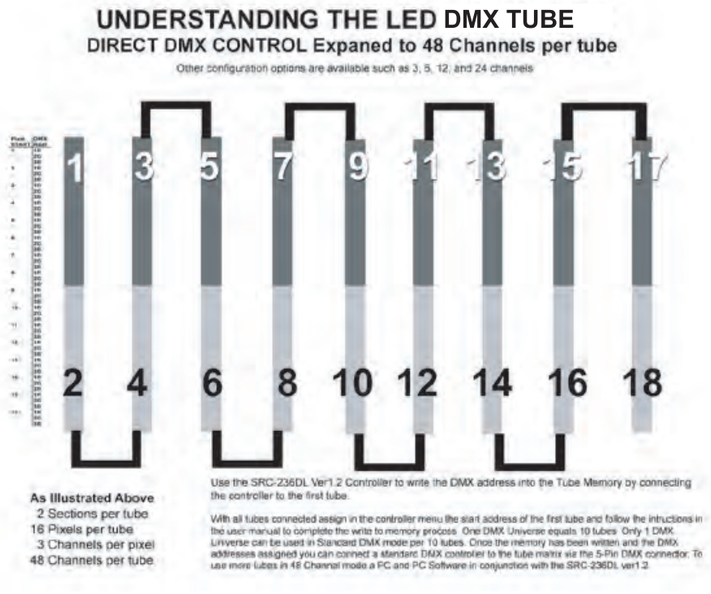


End view(solid line) and Side view(dashed line) (candelas)

Measured on:	White
Beam center:	7400mcd
Thin dashed lined:	Indicates 50% of peak value
Multipliers:	0.07R, 0.57G, 0.36B

Light Output

Color	White	Red	Green	Blue
Total Output (lumens)	63.9	10.5	42.3	14.6
power (watts)	12	2.4	4.8	4.8
Efficacy (lm/w)	5.3	4.4	8.8	3.0



DMX Functionallty Chart

Mode	# of DMX Channels	1	2	4	8	1 6	Channel	Name	Value	Function
1 Pixel	3						1	Red	0~255	0~100% Intensity
							2	Green	0~255	0~100% Intensity
							3	Blue	0~255	0~100% Intensity
							4	Red	0~255	0~100% Intensity
							5	Green	0~255	0~100% Intensity
2 Pixels	6						6	Blue	0~255	0~100% Intensity
							7	Red	0~255	0~100% Intensity
							8	Green	0~255	0~100% Intensity
							9	Blue	0~255	0~100% Intensity
							10	Red	0~255	0~100% Intensity
							11	Green	0~255	0~100% Intensity
4 Pixels	12						12	Blue	0~255	0~100% Intensity
							13	Red	0~255	0~100% Intensity
							14	Green	0~255	0~100% Intensity
							15	Blue	0~255	0~100% Intensity
							16	Red	0~255	0~100% Intensity
							17	Green	0~255	0~100% Intensity
							18	Blue	0~255	0~100% Intensity
							19	Red	0~255	0~100% Intensity
							20	Green	0~255	0~100% Intensity
							21	Blue	0~255	0~100% Intensity
							22	Red	0~255	0~100% Intensity
							23	Green	0~255	0~100% Intensity
8 Pixel	24						24	Blue	0~255	0~100% Intensity
16 Pixel	48						25-48	Red	0~255	0~100% Intensity

System Connection Diagram

PC or Stand-alone Matrix Connection
PC or Stand-alone Matrix Connection

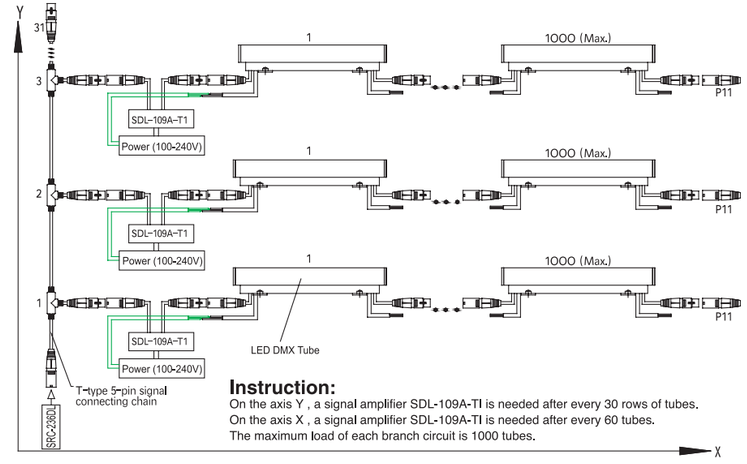
This configuration requires the additional hardware listed below:
SRC-236DL Controller –or- SRC-236DL Controller and PC SDL-109A-T1 (Qty based on total number of tubes)

DMX-512 Control
This configuration requires the additional hardware listed below:
Standard DMX-512 Controller
SDL-109A-T1 (Qty based on total number of tubes).

LED DMX Tube is an intelligent fixture and under certain configurations requires external controllers and signal amplifiers for their operation and installation. For more information on these devices refer to the appropriate pages in this catalog listed below:

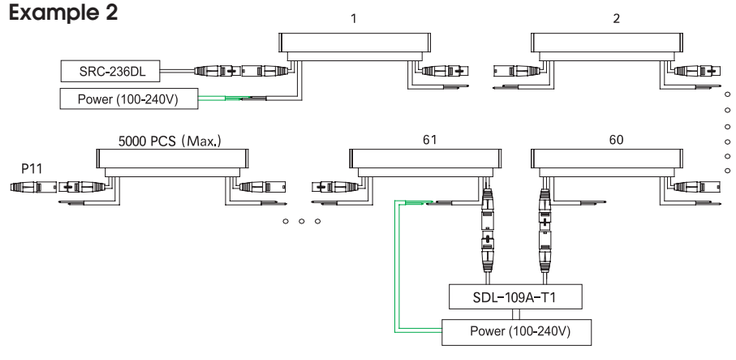
SRC-236DL Controller Page# P414-419.
SDL-109A-T1 Page# P414-419.

Example 1



Instruction:
On the axis Y , a signal amplifier SDL-109A-TI is needed after every 30 rows of tubes.
On the axis X , a signal amplifier SDL-109A-TI is needed after every 60 tubes.
The maximum load of each branch circuit is 1000 tubes.

Example 2



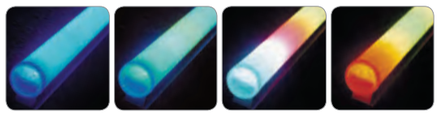
LED Multicolor ND DMX Tube

(Non-Direct DMX)

LED Multicolor ND-DMX Tube is energy savings, multi-color LED, non-direct DMX, controllable, outdoor, tube product. LED Multicolor ND-DMX Tubes are designed for stand-alone applications or by direct DMX control of the SDL-109C1 6.0A controller (sold separately). Whether in stand-alone or mode or under DMX control the LED Multicolor ND-DMX Tubes produce vivid color changing effects, chasing, strobing and other exciting effects.

LED Multicolor ND-DMX Tubes come in either high voltage or low voltage versions and can be applied both indoors and out. High voltage versions of the LED Multicolor ND-DMX Tubes require no additional power supplies.

LED Multicolor ND-DMX Tube is a non-intelligent fixture which means all functionality is provided by an external controller SDL-109C1 6.0A. For more information on the SDL-109C1 6.0A refer to Page# P502-507 of this catalog.



INDOOR USE OUTDOOR USE CE UL pending

Specifications

Item No.	*LN-MC-DIA50-240V*	*LN-MC-DIA50-120V*	*LN-MC-DIA50-12V*
Qty. of LEDs	144PCS (R48, G48, B48)		
Luminance	64Lm		
Operating Temperature	–20°C ~ +45°C		
Operating Humidity	0~95%		
IP Rating	IP64		

Controlling Mode

Controller	SDL-109C1 5.1A version / SDL-109C1 together with DMX512	SDL-109C1 5.1A version
Input Connection	4-pin male connector	
Output Connection	4-pin female connector	
DMX Control	SDL-109C1 6.0A and DMX-512 Controller	

Electrical Specifications

Input	100-240V AC	12V DC
Operating Voltage	12V DC	
Current	1.4A	
Power Consumption	Max. 16.8W	

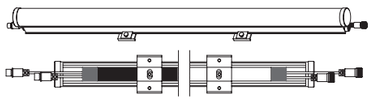
Structure

Material of Light Tube	Milky white polycarbonate (anti-UV)	
Channel	Aluminum alloy (with surface oxidized)	
Dimensions	L1000 x W50 x H95mm	L1000 x W50 x H95mm
Net Weight	1.5Kg	1.0Kg

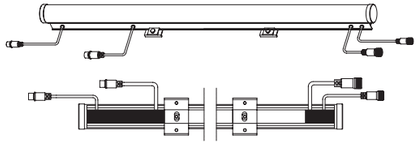
There are three different types of methods for connection

LED Multicolor ND-DMX Tubes are available with (3) different physical connector configurations which are shown below. To make sure you order the right version we have added the letters A, B, C as identifiers for the part number. Choose the desired type below and simply add the corresponding letter code to the end of the part number as shown.

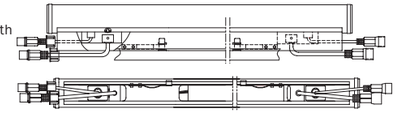
1. Lead wires are set on the bottom of the channel
   LN-MC-DIA50-120V/240V-A



2. Lead wires are on one side of the channel.
   LN-MC-DIA50-120V/240V-B

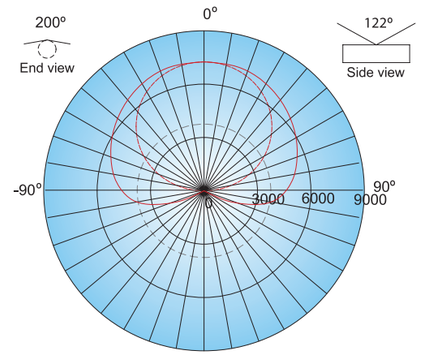


3. Lead wires are set on the bottom of the channel with the channel inserted into an installing channel.



Due to the limitation of the type set, this catalog's specifications for each fixture may not be shown. For more information on other models please contact your Neo-Neon™ Sales Associate.

Candle Poweer Distribution



End view(solid line) and Side view(dashed line) (candelas)

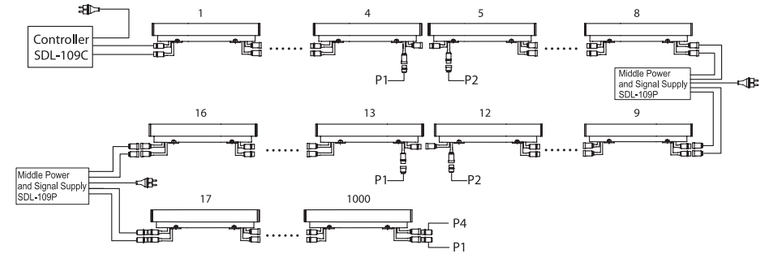
Measured on:	White
Beam center:	7400mcd
Thin dashed lined:	Indicates 50% of peak value
Multipliers:	0.07R, 0.57G, 0.36B

Light Output

Color	White	Red	Green	Blue
Total Output (lumens)	63.9	10.5	42.3	14.6
power (watts)	12	2.4	4.8	4.8
Efficacy (lm/w)	5.3	4.4	8.8	3.0

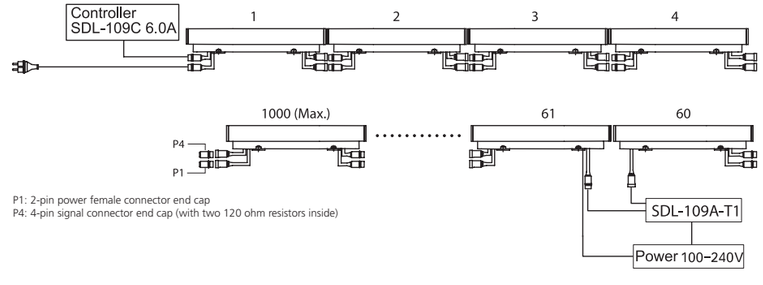
System Connection Diagram

Example 1 (12V) Low Voltage



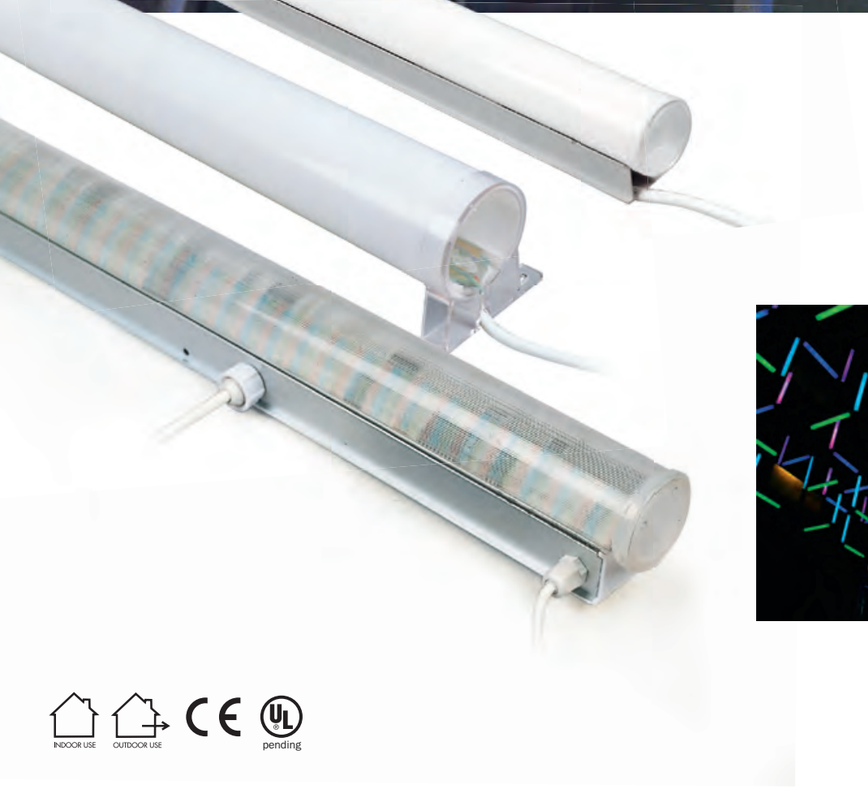
P1: 2-pin power connector end cap
P2: 2-pin power male connector end cap
P4: 4-pin signal connector end cap (with two 120 ohm resistors inside)

Example 2 (120V/240V)



P1: 2-pin power female connector end cap
P4: 4-pin signal connector end cap (with two 120 ohm resistors inside)

* Siam Center, Bangkok, Thailand



INDOOR USE OUTDOOR USE pending

LED 7 Color Tube

LED 7 Color Tube is a comparatively simple LED Tube solution for applications where single color changes between 7 colors are all that is required. Energy savings and cost effect for simple 7 color applications from the RGB LED's incorporated into a Milky PC tube. The 50mm diameter version is mounted on a aluminum channel and the 80mm diameter version is fashioned with metal suspension brackets.

The LED 7 Color Tubes are controlled by Neo-Neon's proprietary SRC-181 controller. (Sold separately) For more information on the SRC-181 refer to Page# 414-419 of this catalog.

Functions

Static Colors: Red, Green, Yellow, Blue, Purple, Fluorescent Green, White (single color vision)

Change Color: Color counterchange
Color twinkle
Gray scale change

Specifications

Item No.	*LN-SC-DIA50-240V* *LN-SC-DIA50-120V*	*LN-SC-DIA80-240V* *LN-SC-DIA80-120V*	*LN-SC-DIA80-(ECO)240V* *LN-SC-DIA80-(ECO)120V*
Qty. of LEDs	144pcs(R48, G48, B48)	180pcs(R60, G60, B60)	144pcs(R48, G48, B48)
Luminance	64Lm	80Lm	106Lm
Operating Temperature	–20°C ~ +45°C		
Operating Humidity	0~95%		
IP Rating	IP64		IP65

Controlling Mode

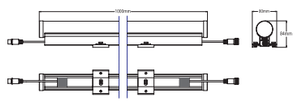
Controller	SRC-181
Input Connection	4-pin male connector
Output Connection	4-pin female connector

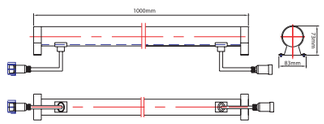
Specifications

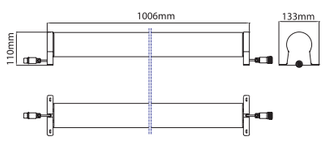
Input	120V AC / 240V AC		
Current	0.1A / 0.06A		
Power Consumption	12W / 14.4W		

Structure

Tube Material	Milky White Polycarbonate (PC) with Anti UV Additive		Cleaar Polycaarbonate
Profile Material	Aluminum Oxidized Processed		
Dimensions	L1000xW50xH75mm	L1006xW135xH110mm	L1006xW135xH110mm
Net Weight	1.2kg	0.8kg	0.8kg

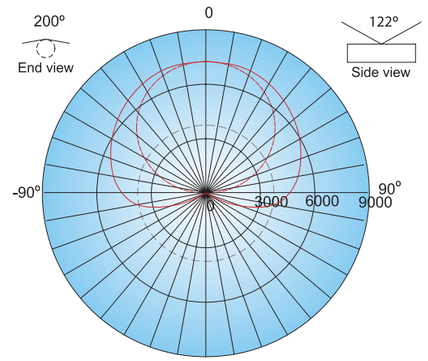






Due to the limitation of the type set, this catalog's specifications for each fixture may not be shown. For more information on other models please contact your Neo-Neon™ Sales Associate.

Candle Power Distribution



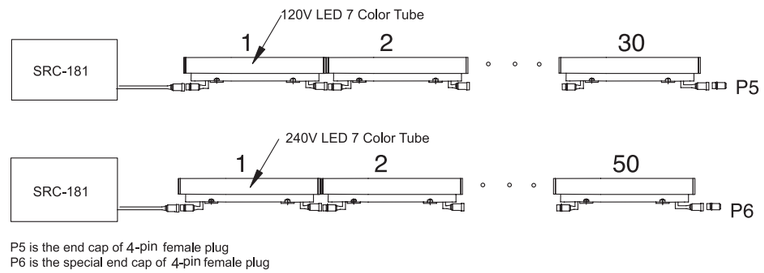
End view(solid line) and Side view(dashed line) (candelas)

Measured on:	White
Beam center:	7400mcd
Thin dashed lined:	Indicates 50% of peak value
Multipliers:	0.07R, 0.57G, 0.36B

Light Output

Color	White	Red	Green	Blue
Total Output (lumens)	63.9	10.5	42.3	14.6
power (watts)	12	2.4	4.8	4.8
Efficacy (lm/w)	5.3	4.4	8.8	3.0

System Connection Diagram



P5 is the end cap of 4-pin female plug
P6 is the special end cap of 4-pin female plug

INDOOR USE OUTDOOR USE pending

LED Single Color Tube

(High Voltage)

LED Single Color Tube (High Voltage) is a simple energy saving, single color, high voltage, LED Tube. Specifically produced to suit applications requiring an indoor or outdoor large visibility single color borders the LED Single Color Tube (High Voltage) exceeds design expectations. LED Single Color Tubes (High Voltage) are perfect for building bordering, backlighting, and many other areas that require a decorative single color border solution.

Functions

Available Standard Single Colors:

Red Yellow Blue Green White.

Specifications

Item No.	*LN-SC-DIA50-220V-500-48-R/G/B/Y/W* *LN-SC-DIA50-220V-500-72-R/G/B/Y/W*	*LN-SC-DIA50-220V-1000-48-R/G/B/Y/W* *LN-SC-DIA50-220V-1000-96-R/G/B/Y/W* *LN-SC-DIA50-220V-1000-144–R/G/B/Y/W*	
Qty. of LEDs	48 / 72pcs	48pcs	96 / 144pcs
Temperature	-20˚C - +45˚C		
Humidity	0-95%		
IP Rating	IP65		

Controlling Mode

Input Connector	2-pin male connector
Output Connector	2-pin female connector

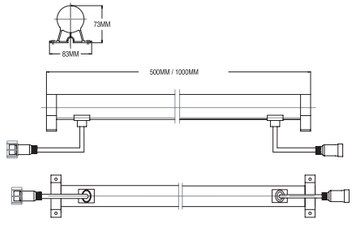
Electrical Specifications

Input	220V		
Current	0.02A	0.02A	0.04A
Maximum Power	4.4W	4.4W	8.8W

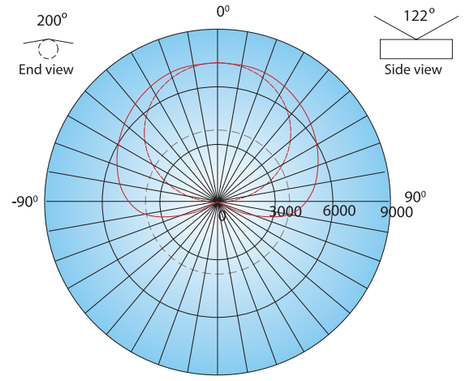
Structure

Tube Material	Milky White Polycarbonate (PC) with Anti-UV additives	
Net Weight	L500xW80xH86mm	L1000xW80xH86mm
Dimensions	0.35kg	0.6kg

Dimensional Diagrams



Candle Poweer Distribution



End view(solid line) and Side view(dashed line) (candelas)

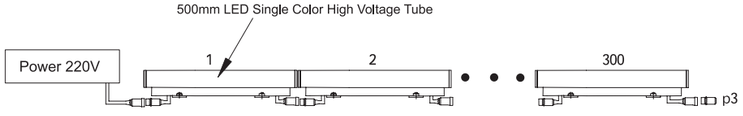
Measured on:	White (144 pcs LED)
Beam center:	7400mcd

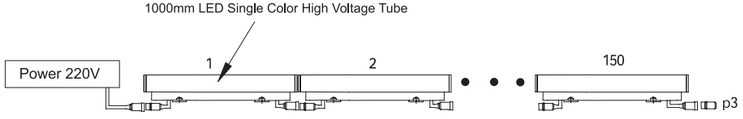
Light Output

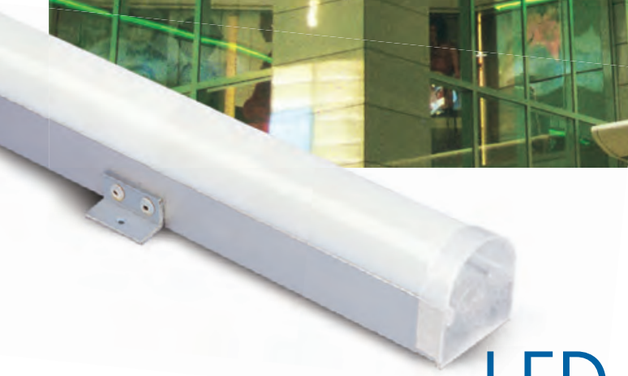
Color	White	Red	Green	Blue	Yellow
Total Output (lumens)	37.9	29.8	49.6	35.7	35.1
power (watts)	8.8	8.8	8.8	8.8	8.8
Efficacy (lm/w)	4.3	3.4	5.6	4.1	4.1

System Connection Diagram

All the power cords for LED Single Color Tube(High Voltage) are 2-pin.



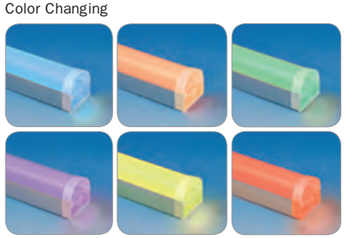




LED Border Light

(Non-Direct DMX)

Color Changing



INDOOR USE OUTDOOR USE pending

LED Border Light is a low cost, energy savings, LED based product that incorporates 2, 3, and 4/5 wire LED Duralight™ into a aluminum mounting profile and milky white PC cap to simulate an LED Tube Effect. The aluminum mounting track is designed to fit perfectly with the 4/5 wire LED Duralight™ single color, RGB, RGBY, and single color versions.

LED Border Light comes standard in premade (1-Meter) sections with molded end caps and connectors or supplied as individual linear sections of 2, 3, 4/5 wire LED Duralight™, Aluminum Profile Channel, Milky White PC Cap, and mounting hardware. Custom Lengths of premade versions are available to your specification.

LED Border Light 4/5 wire versions require a separate controller. There are two types of controllers available for the 4./5 wire versions. The SL-410 simple controller provides (7) pre-programmed color changing effects. For more information on the SL-410 controller see Page# 502-507 of this catalog.

Depending on your application the 4 wire RGB version LED Border Light can be controlled via the SRC-181-V2.0 / SRC-191 which provides full RGB color mixing and adds DMX 512 controllability. For more information on the SRC-181-V2.0 / SRC-191 functionality and DMX profile see Page# 502-507 of this catalog.

Features and Benefits

- Energy Savings (Up to 80% energy saved compared to incandescent lighting)
- Long life LED technology (up to 100,000 hours)
- Comes in standard 1M complete sections for ease of installation
- Premade LED Border Light can be made to your desired length
- Utilizes 2, 3, 4/5 Wire LED Duraflex™ as the light source
- Anti-UV Protected Milky White Cap
- Easy to install Aluminum Channel Profile
- Waterproof (IP65)
- Virtually maintenance free
- Seamless linear border effect (Linear non-premade type)
- Single Color, RGB, RGBY
- As bright as glass neon and LED Tubes
- Unbreakable

Double Diffusion Effect

When applying both the LED Duralight™ 4/5 wire with Milky White PVC jacket and the Milky White PC Cap a double diffusion effect is achieved which proved even greater smoothness and light consistency.

Controllability

LED Border Light 4/5 wire versions require a separate controller. There are two types of controllers available for the 4./5 wire versions. The SL-410 simple controller provides (7) pre-programmed color changing effects. For more information on the SL-410 controller see Page# 414-419 of this catalog.

LED Border Light is a low cost, energy savings, LED based product that incorporates 2, 3, and 4/5 wire LED Duralight™ into a aluminum mounting profile and milky white PC cap to simulate an LED Tube Effect. The aluminum mounting track is designed to fit perfectly with the 4/5 wire LED Duralight™ single color, RGB, RGBY, and single color versions.

LED Border Light comes standard in premade (1-Meter) sections with molded end caps and connectors or supplied as individual linear sections of 2, 3, 4/5 wire LED Duralight™, Aluminum Profile Channel, Milky White PC Cap, and mounting hardware. Custom Lengths of premade versions are available to your specification.

LED Border Light 4/5 wire versions require a separate controller. There are two types of controllers available for the 4./5 wire versions. The SL-410 simple controller provides (7) pre-programmed color changing effects. For more information on the SL410 controller see Page# 414-419 of this catalog.

Depending on your application the 4 wire RGB version LED Border Light can be controlled via the SRC-181-V2.0/SRC-191 which provides full RGB color mixing and adds DMX 512 controllability. For more information on the SRC-181-V2.0 / SRC-191 functionality and DMX profile see Page# 414-419 of this catalog.

* PUB, Bemmel, Holland

* PUB, Bemmel, Holland
Photo above provided by Fair Light Holland

LED Border Single Color 2-Wire Standard Type

Item No.	*LN-BL-R19-2W-240V*	*LN-BL-R19-2W-120V*	
Qty. of LEDs	60pcs/m	60pcs/m	
LED Colors	R, Y, B, G, W, O	R, Y, O	B, G, W
Rated Power	4.8W/m	2.4W/m	4.8W/m
Dimensions	100x3.8x4cm		
Max Load Length	80 tubes with 1.6A convertor 200 tubes with 4A convertor	80 tubes with 1.6A convertor 200 tubes with 4A convertor	40 tubes with 1.6A convertor 100 tubes with 4A convertor

LN-BL-R19-2W-100V		*LN-BL-R19-2W-24V*		*LN-BL-R19-2W-12V*	
60pcs/m				120pcs/m	
R, Y, O	B, G, W	R, Y, O	B, G, W	R, Y, O	B, G, W
2W/m	4W/m	2.4W/m	4.8W/m	2.4W/m	4.8W/m
100x3.8x4cm					
80 tubes with 1.6A convertor 200 tubes with 4A convertor	40 tubes with 1.6A convertor 100 tubes with 4A convertor	16 tubes with 1.6A convertor 40 tubes with 4A convertor	8 tubes with 1.6A convertor 20 tubes with 4A convertor	8 tubes with 1.6A convertor 20 tubes with 4A convertor	4 tubes with 1.6A convertor 10 tubes with 4A convertor

For power converter information see Page# P496-499 of this catalog.

LED Border Single Color 3-Wire Standard Type

Item No.	*LN-BL-R19-3W-240V*			*LN-BL-R19-3W-120V*		
Qty. of LEDs	120pcs/m			120pcs/m		
LED Colors	R, Y, O	B, G, W	R/G	R, Y, O	B, G, W	R/G
Rated Power	4.8W/m	9.6W/m		4.8W/m	9.6W/m	
Dimensions	100x3.8x4cm					
Max Load Length	80 tubes with 1.6A convertor 200 tubes with 4A convertor	40 tubes with 1.6A convertor 100 tubes with 4A convertor	10 tubes with SL-410E 1A 20 tubes with SL-410E 2A 200 tubes with SRC-191	40 tubes with 1.6A convertor 100 tubes with 4A convertor	20 tubes with 1.6A convertor 50 tubes with 4A convertor	5 tubes with SL-410U 1A 100 tubes with SRC-191

LN-BL-R19-3W-100V			*LN-BL-R19-3W-24V*			*LN-BL-R19-3W-12V*		
120pcs/m			60pcs/m			60pcs/m		
R, Y, O	B,G,W	R/G	R, Y, O	B, G, W	R/G	R, Y, O	B, G, W	R/G
4W/m	8W/m		4.8W/m	9.6W/m		4.8W/m	9.6W/m	
100x3.8x4cm								
40 tubes with 1.6A convertor 100 tubes with 4A convertor	20 tubes with 1.6A convertor 50 tubes with 4A convertor	5 tubes with SL-410J 1A 100 tubes with SRC-191	8 tubes with 1.6A convertor 20 tubes with 4A convertor	4 tubes with 1.6A convertor 10 tubes with 4A convertor	1 tubes with SL-410L 1A 20 tubes with SRC-191	4 tubes with 1.6A convertor 10 tubes with 4A convertor	2 tubes with 1.6A convertor 5 tubes with 4A convertor	10 tubes with SRC-191

For power converter information see Page# P496-499 of this catalog.

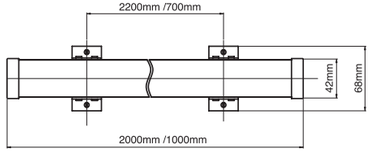
LED Border RGB 4-Wire Standard Type

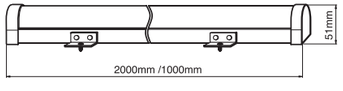
Item No.	*LN-BL-R19-4W-240V*	*LN-BL-R19-4W-120V*	*LN-BL-R19-4W-24V*	*LN-BL-R19-4W-12V*
Qty. of LEDs	180pcs/m			
Rated Power	14.4W/m	12W/m		
LED Colors	RGB color change			
Dimensions	100x3.8x4.8cm			
Max Load Length	10m with SL-410E 1A 20m with SL-410E 2A 132m with SRC-191	5m with SL-410U 1A 66m with SRC-191	1m with SL-410L 1A 13m with SRC-191	6m with SRC-191

For power converter information see Page# P408-411 of this catalog.

LED Border RGB 5-Wire Standard Type

(Contact your Sales Associate for more information)





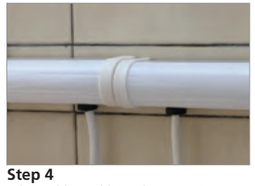
Installation

Installation Example - Pre-made Single Color Standard Versions

Step 1
Mark the desired position on the intended mounting surface and the location of the mounting holes to be drilled.

Step 2
Drill Mounting Holes

Step 3
Secure the fixture using appropriate hardware according to local building codes.



Step 4
When adding additional sections in a line ensure that there is a 3mm space between each tube to compensate for normal material expansion due to heat variations.

Step 5
Connect the wiring and connect to power.

Installation Example - Separate Linear LED Duralight(tm), Aluminum Channel, and PC Cap Type

Step 1
Secure Aluminum Channel Profile onto the intended mounting surface with the appropriate mounting hardware according to local building codes.

Step 2
When adding additional sections in a line ensure that there is a 3mm space between each channel section to compensate for normal material expansion due to heat variations.

Step 3
Insert the connecting pin into the LED Duralight™ and pull the power supply wire through the end cap. Connect power connector and the LED Duralight™ making sure of a proper connection and seal the connection with silicone to make watertight.

Step 4
Push the LED Duralight™ starting from the direction of the power wire into the channel molded into the Aluminum profile with even pressure.

Step 5
Insert the Milky White PC Cap.

Step 6
Apply the end cap and seal with silicone.

Applying a right angle (L) Type connector

Step 1
Fix the 'L' connector and the channel on the wall.

Step 2
Press the body of the duralight into the center of the channel.

Step 3
Cover the 'L' connector onto the corner of the channel.

Step 4
Insert the cover of the light onto the channel, and slide it to connect to the corner fixing unit.

Step 5
Put on the end cap and seal with glue.

Accessories and Controllers

Installation Accessories and Controllers

L1 Right Angle Connector Assembly

L2 Exterior Corner Connector Assembly

L3 Interior Corner Connector Assembly

SRC-181-V2.07 SRC-191 Controllers (For RGB 4-Waire Type) See Page# 414-419.

Low Voltage Tube Transformers See Page# 414-419.